

# INTERNATIONAL SEARCH REPORT

International Classification No  
PCT/IB 03/03694

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 G06K9/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G06K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	EYUNG LIM ET AL: "Fingerprint quality and validity analysis" PROCEEDINGS 2002 INTERNATIONAL CONFERENCE ON IMAGE PROCESSING. ICIP 2002. ROCHESTER, NY, SEPT. 22 - 25, 2002, INTERNATIONAL CONFERENCE ON IMAGE PROCESSING, NEW YORK, NY: IEEE, US, vol. 2 OF 3, 22 September 2002 (2002-09-22), pages 469-472, XP010607362 ISBN: 0-7803-7622-6 abstract; figures 1,5,6; table 1 page 469, right-hand column, paragraph 3 -page 470, left-hand column, paragraph 4 page 471, left-hand column, paragraph 3 --- -/--	1,4,5,8

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

3 November 2003

Date of mailing of the international search report

18/12/2003

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 963 656 A (YAO YI-SHENG ET AL) 5 October 1999 (1999-10-05) abstract column 3, line 30 - line 50 column 5, line 35 -column 8, line 65 ---	1,5
A	LINLIN SHEN ET AL: "Quality measures of fingerprint images" AUDIO- AND VIDEO-BASED BIOMETRIC PERSON AUTHENTICATION. THIRD INTERNATIONAL CONFERENCE, AVBPA 2001. PROCEEDINGS (LECTURE NOTES IN COMPUTER SCIENCE VOL.2091), AUDIO- AND VIDEO-BASED BIOMETRIC PERSON AUTHENTICATION. THIRD INTERNATIONAL CONFERENCE, AVBP, pages 266-271, XP002259958 2001, Berlin, Germany, Springer-Verlag, Germany ISBN: 3-540-42216-1 page 266, paragraph 1 -page 267, paragraph 2 page 268, paragraph 4 - paragraph 5 ---	1-8
A	WO 02 35453 A (LEE DEUNGGU ;ALPHA ENGINEERING CO LTD (KR)) 2 May 2002 (2002-05-02) abstract page 4, line 35 -page 5, line 10 ---	1-8
A	RATHA N. K. ET AL.: "Fingerprint Image Quality Estimation" RESEARCH REPORT, IBM T J WATSON RESEARCH CENTER, , December 1999 (1999-12), pages 1-5, XP002259959 Yorktown Heights abstract -----	1-8

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5963656	A	05-10-1999	NONE	
WO 0235453	A	02-05-2002	KR 2001000861 A AU 1104902 A WO 0235453 A1	05-01-2001 06-05-2002 02-05-2002